203.1 - Combustion Calorimetry (powder form)

These SRMs are for use as standards for calibration of combustion bomb calorimeters used in checking the performance of apparatus and analytical procedures.

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PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit of Issue	Heat of Combustion (in MJ/kg)*
39j	Benzoic Acid (Calorimetric Standard)	30 g	26.434
1656	Thianthrene Combustion Calorimetry	30 g	33.480
1657	Synthetic Refuse-Derived Fuel	100 g	13.87**
2151	Nicotinic Acid (Combustion Calorimetric Standard)	25 g	22.184
2152	Urea (Combustion Calorimetric Standard)	25 g	10.536

^{*} The calorific values (MJ/kg) may decrease upon the aging or normal oxidation of the coals. NIST will continue to monitor these calorific values and report any substantive change to the purchaser.

** Gross calorific value or HHV (Higher Heating Value).